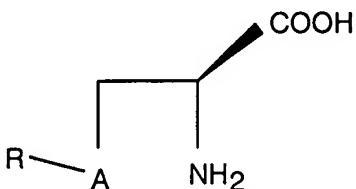


IN THE CLAIMS

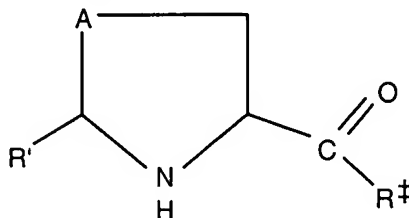
1. (currently amended) A prodrug of the formula:



where A is ~~a sulfur or a selenium~~, and R is ~~derived from~~ a mono- di- or oligo-saccharide.

Claims 3-8 (cancelled)

9. (currently amended) A prodrug of the formula:



where A is ~~sulfur or~~ selenium, and

R' is ~~derived from~~ a sugar and R' has having the formula (CHOH)_nCH₂OH, where n is 1 to 5, or

R' is ~~also be~~ an alkyl or aryl group, or

R' is =O, and

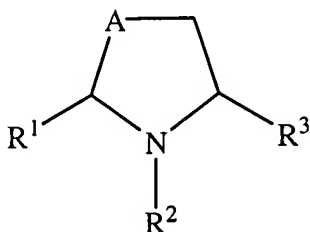
R⁺ is an alkoxy, or an amine group.

10. (original) A prodrug as in Claim 9 wherein R⁺ is -OR¹ where R¹ is ethyl, or methyl.
11. (original) A prodrug as in Claim 9 wherein R' is methyl, ethyl, benzyl, carboxyl, or phenyl.
12. (original) A prodrug as in Claim 9 wherein R⁺ is -NR[†]₂, wherein the R[†] groups are the same or different and are hydrogen or alkyl.

13. (original) A prodrug as in Claim 11 wherein at least one R^1 is methyl.

Claims 14 and 15 (cancelled)

16. (new) A method for reducing the toxic insult in a mammal, comprising administering the prodrug of claim 1.
17. (new) A method for (1) reducing unwanted side effects of chemo- or radiotherapy of cancer, (2) improving cardiovascular function, (3) preventing mutagenesis, (4) preventing the initiation and/or progression of cancer, (5) reducing toxic consequences of planned or unplanned radiation or chemical exposures, (6) slowing the aging process, or (7) preventing cataract formation in a mammal comprising administering to the mammal the prodrug of claim 1.
18. (new) A method for reducing the toxic insult in a mammal, comprising administering to the mammal a prodrug having the formula



wherein

- (1) A is selenium,
 R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is =O,
 R^2 is $CH_2CH_2CH_2N(R^4)_2$, wherein R^4 may be the same or different and may be hydrogen, alkyl, alkoxy, or carboxy; and
 R^3 is hydrogen;
- (2) A is selenium,
 R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is =O,

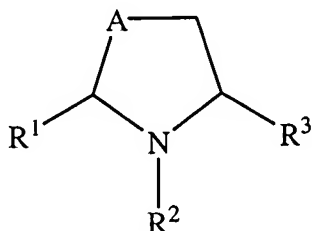
R^2 is hydrogen, R^3 is COR^5 , wherein R^5 is an alkoxy, or an amine group;
or

(3) A is selenium,

R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is $=O$,

R^2 is hydrogen, and R^3 is hydrogen or $COOH$.

19. (new) A method for (1) reducing unwanted side effects of chemo- or radiotherapy of cancer, (2) improving cardiovascular function, (3) preventing mutagenesis, (4) preventing the initiation and/or progression of cancer, (5) reducing toxic consequences of planned or unplanned radiation or chemical exposures, (6) slowing the aging process, or (7) preventing cataract formation in a mammal comprising administering the mammal a prodrug having the formula



wherein

(1) A is selenium,

R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is $=O$,

R^2 is $CH_2CH_2CH_2N(R^4)_2$, wherein R^4 may be the same or different and may be hydrogen, alkyl, alkoxy, or carboxy; and

R^3 is hydrogen;

(2) A is selenium,

R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is $=O$,

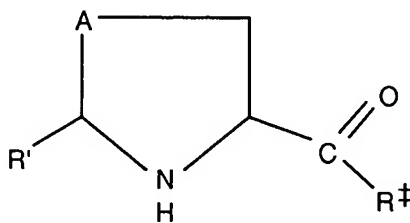
R^2 is hydrogen, R^3 is COR^5 , wherein R^5 is an alkoxy, or an amine group;
or

(3) A is selenium,

R^1 is a sugar having the formula $(CHOH)_nCH_2OH$, where n is 1 to 5, or R^1 is an alkyl or aryl group, or R^1 is $=O$,

R^2 is hydrogen, and R^3 is hydrogen or $COOH$.

20. (new) A prodrug of the formula



where A is sulfur or selenium, and

R' is an alkyl or aryl group, or

R' is $=O$, and

R^+ is an alkoxy, or an amine group.

A!
concl'd